

AF

Welcome to STN International! Enter x:x

LOGINID:sssptal611sxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAPlus records now contain indexing from 1907 to the
present
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded
NEWS 5 SEP 29 DISSABS now available on STN
NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPlus
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CAPlus
NEWS 22 FEB 05 German (DE) application and patent publication number format
changes
NEWS 23 MAR 03 MEDLINE and LMEDLINE reloaded
NEWS 24 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 25 MAR 03 FRANCEPAT now available on STN

NEWS EXPRESS MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:09:46 ON 09 MAR 2004

=> file regf

'REGF' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'HOME'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> file reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

0.42	0.42
------	------

FILE 'REGISTRY' ENTERED AT 16:10:51 ON 09 MAR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 MAR 2004 HIGHEST RN 660388-34-1

DICTIONARY FILE UPDATES: 8 MAR 2004 HIGHEST RN 660388-34-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

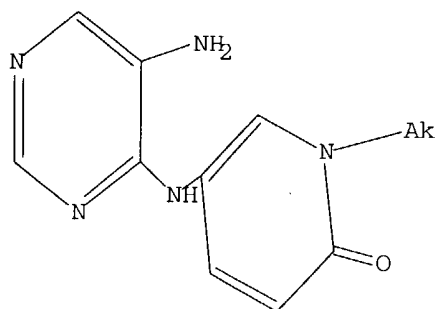
Uploading c:\program files\stnexp\queries\10018688.15

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full
FULL SEARCH INITIATED 16:11:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 167 TO ITERATE

-----100.0% PROCESSED-----167- ITERATIONS----- 1 ANSWERS-----
SEARCH TIME: 00.00.01

L2 1 SEA SSS FUL L1

=> file marpat
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
155.42	155.84

FILE 'MARPAT' ENTERED AT 16:11:22 ON 09 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE CONTENT: 1988-PRESENT (VOL 140 ISS 10) (20040307/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6683216 27 JAN 2004
DE 10317487 12 FEB 2004
EP 1388563 11 FEB 2004
JP 2004047131 12 FEB 2004
WO 2004011964 05 FEB 2004

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=> s l1 sss full
FULL SEARCH INITIATED 16:11:28 FILE 'MARPAT'
FULL SCREEN SEARCH COMPLETED - 5221 TO ITERATE

93.8% PROCESSED 4897 ITERATIONS

5 ANSWERS

100.0% PROCESSED 5221 ITERATIONS
SEARCH TIME: 00.00.29

5 ANSWERS

L3 5 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

109.42

265.26

FILE 'CAPLUS' ENTERED AT 16:12:08 ON 09 MAR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 9 Mar 2004 VOL 140 ISS 11

FILE LAST UPDATED: 8 Mar 2004 (20040308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 16:09:46 ON 09 MAR 2004)

FILE 'REGISTRY' ENTERED AT 16:10:51 ON 09 MAR 2004

L1 STRUCTURE UPLOADED

L2 1 S L1 SSS FULL

FILE 'MARPAT' ENTERED AT 16:11:22 ON 09 MAR 2004

L3 5 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:12:08 ON 09 MAR 2004

=> s 12

L4 1 L2

=> s 13

L5 5 L3

=> d 14 fbib hitstr abs total

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:31502 CAPLUS

DN 134:100881

TI Preparation of fused imidazole compounds and remedies for diabetes mellitus

IN Asano, Osamu; Harada, Hitoshi; Yoshikawa, Seiji; Watanabe, Nobuhisa;

Inoue, Takashi; Horizoe, Tatsuo; Yasuda, Nobuyuki; Oohashi, Kaya; Minami, Hiroe; Nagaoka, Junsaku; Murakami, Manabu; Kobayashi, Seiichi; Tanaka, Isao; Kawata, Tsutomu; Shimomura, Naoyuki; Akamatsu, Hirofumi; Ozeki, Naoki; Shimizu, Toshikazu; Hayashi, Kenji; Haga, Toyokazu; Negi, Shigeto; Naito, Toshihiko

PA Eisai Co., Ltd., Japan
 SO PCT Int. Appl., 130 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

Amicals

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002400	A1	20010111	WO 2000-JP4358	20000630
W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

AU 2000055717 A5 20010122

JP 1999-188484 A 19990702
 JP 2000-143495 A 20000516
 JP 2000-182786 A 20000619
 AU 2000-55717 20000630

EP 1221444 A1 20020710

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY

JP 1999-188484 A 19990702
 JP 2000-143495 A 20000516
 JP 2000-182786 A 20000619
 WO 2000-JP4358 W 20000630
 EP 2000-940909 20000630

OS MARPAT 134:100881

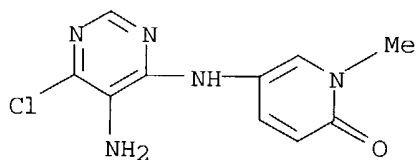
IT **318468-74-5P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

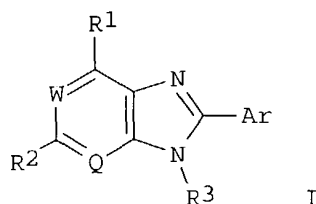
(preparation of fused imidazole compds. as antagonists of adenosine A2 receptors and remedies for diabetes mellitus)

RN 318468-74-5 CAPLUS

CN 2(1H)-Pyridinone, 5-[(5-amino-6-chloro-4-pyrimidinyl)amino]-1-methyl- (9CI) (CA INDEX NAME)



GI



AB Novel fused imidazole compds. such as purine derivs. of general formula (I), pharmacol. acceptable salts thereof, or hydrates of both [wherein R1 = H, OH, halo, (un)substituted C1-8 alkyl, (un)substituted NH2; R2 = H, halo, (un)substituted NH2, (un)substituted C2-8 alkenyl, (un)substituted C3-8 alkynyl, (un)substituted C1-8 alkyl; R3 = (un)substituted C3-8 alkynyl, C3-8 alkenyl, (un)substituted C1-8 alkyl, (un)substituted aryl, (un)substituted heteroaryl, etc.; Ar = (un)substituted aryl, (un)substituted heteroaryl, optionally halo- or C1-6 alkyl-substituted N-C1-6 alkyl- or N-C3-6 cycloalkyl-oxopyridyl or -oxopyrimidyl; Q, W = N, CH; some proviso are given] are prepared These compds. exhibit adenosine A2 receptor antagonism and are effective in the prevention and treatment of diabetes mellitus and complications of diabetes. Thus, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,2-dihydro-2-pyridinone was condensed with N,N-dimethylformamide di-Me acetal in DMF at room temperature

for

1 h, ice-cooled, treated with NaH at 0-6° for 30 min, and methylated by Me iodide at room temperature for 16 h to give 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-1,2-dihydro-2-pyridinone (II). II.HCl at 10 mg/kg p.o. in spontaneously diabetic mice lowered the blood sugar level to 47.3±7.2% of the control animal.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

=> d 15 fbib hitstr abs total

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:923769 CAPLUS

DN 136:53682

TI Preparation of 1,2-dihydropyridinone compounds and use thereof as AMPA receptor and kainite receptor inhibitors

IN Nagato, Satoshi; Ueno, Kohshi; Kawano, Koki; Norimine, Yoshihiko; Ito, Koichi; Hanada, Takahisa; Ueno, Masataka; Amino, Hiroyuki; Ogo, Makoto; Hatakeyama, Shinji; Urawa, Yoshio; Naka, Hiroyuki; Groom, Anthony John; Rivers, Leanne; Smith, Terence

PA Eisai Co., Ltd., Japan

SO PCT Int. Appl., 284 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

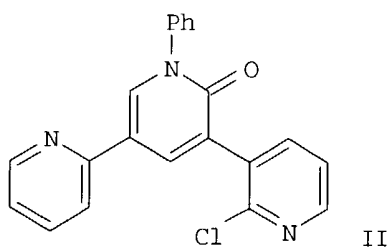
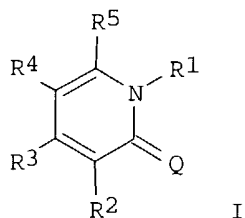
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001096308	A1	20011220	WO 2001-JP4857	20010608
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				

HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 2001062723 A5 20011224 JP 2000-175966 A 20000612
GB 2000-22483 A 20000913
AU 2001-62723 20010608
JP 2000-175966 A 20000612
GB 2000-22483 A 20000913
WO 2001-JP4857 W 20010608
EP 1300396 A1 20030409 EP 2001-936920 20010608
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2000-175966 A 20000612
GB 2000-22483 A 20000913
WO 2001-JP4857 W 20010608
US 2004023973 A1 20040205 US 2002-296719 20021126
JP 2000-175966 A 20000612
GB 2000-22483 A 20000913
WO 2001-JP4857 W 20010608
NO 2002005955 A 20030212 NO 2002-5955 20021211
JP 2000-175966 A 20000612
GB 2000-22483 A 20000913
WO 2001-JP4857 W 20010608

OS MARPAT 136:53682
GI



AB Title compds. [I; Q = NH, O, S; R1, R2, R3, R4, R5 each independently = H, halo, C1-6 alkyl-XA; X = single bond, C1-6 alkylene; A = C6-14 aromatic carbocyclic, C6-14 aromatic heterocyclic], salts, hydrates, and 3-(2-cyanophenyl)-4-(2-pyridyl)-2-methoxypyridine, exhibiting excellent inhibitory activities against AMPA receptor and/or kainite receptor, are prepared. Thus, the title compound II was prepared and orally tested effective as anti-AMPA-induced-spasm agent in male ddy mouse and in vitro anti-AMPA-induced nerve cell calcium influx.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:31502 CAPLUS

DN **134:100881**

TI Preparation of fused imidazole compounds and remedies for diabetes mellitus

IN Asano, Osamu; Harada, Hitoshi; Yoshikawa, Seiji; Watanabe, Nobuhisa; Inoue, Takashi; Horizoe, Tatsuo; Yasuda, Nobuyuki; Oohashi, Kaya; Minami, Hiroe; Nagaoka, Junsaku; Murakami, Manabu; Kobayashi, Seiichi; Tanaka, Isao; Kawata, Tsutomu; Shimomura, Naoyuki; Akamatsu, Hirofumi; Ozeki, Naoki; Shimizu, Toshikazu; Hayashi, Kenji; Haga, Toyokazu; Negi, Shigeto; Naito, Toshihiko

PA Eisai Co., Ltd., Japan

SO PCT Int. Appl., 130 pp.
CODEN: PIXXD2

DT Patent

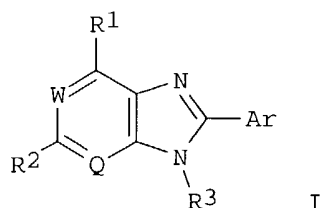
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002400	A1	20010111	WO 2000-JP4358	20000630
	W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				JP 1999-188484 A	19990702
				JP 2000-143495 A	20000516
				JP 2000-182786 A	20000619
	AU 2000055717	A5	20010122	AU 2000-55717	20000630
				JP 1999-188484 A	19990702
				JP 2000-143495 A	20000516
				JP 2000-182786 A	20000619
				WO 2000-JP4358 W	20000630
	EP 1221444	A1	20020710	EP 2000-940909	20000630
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
				JP 1999-188484 A	19990702
				JP 2000-143495 A	20000516
				JP 2000-182786 A	20000619
				WO 2000-JP4358 W	20000630

OS MARPAT 134:100881

GI



AB Novel fused imidazole compds. such as purine derivs. of general formula (I), pharmacol. acceptable salts thereof, or hydrates of both [wherein R1 = H, OH, halo, (un)substituted C1-8 alkyl, (un)substituted NH2; R2 = H, halo, (un)substituted NH2, (un)substituted C2-8 alkenyl, (un)substituted C3-8 alkynyl, (un)substituted C1-8 alkyl; R3 = (un)substituted C3-8 alkynyl, C3-8 alkenyl, (un)substituted C1-8 alkyl, (un)substituted aryl, (un)substituted heteroaryl, etc.; Ar = (un)substituted aryl, (un)substituted heteroaryl, optionally halo- or C1-6 alkyl-substituted N-C1-6 alkyl- or N-C3-6 cycloalkyl-oxopyridyl or -oxopyrimidyl; Q, W = N, CH; some proviso are given] are prepared These compds. exhibit adenosine A2 receptor antagonism and are effective in the prevention and treatment of diabetes mellitus and complications of diabetes. Thus, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,2-dihydro-2-pyridinone was condensed with N,N-dimethylformamide di-Me acetal in DMF at room temperature

for 1 h, ice-cooled, treated with NaH at 0-6° for 30 min, and methylated by Me iodide at room temperature for 16 h to give 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-1,2-dihydro-2-pyridinone (II). II.HCl at 10 mg/kg p.o. in spontaneously diabetic mice lowered the blood sugar level to 47.3±7.2% of the control animal.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:78618 CAPLUS

DN **130:183929**

TI Formation of full-color images with good fastness and sharpness by ink-jet printing

IN Sano, Hideo; Yamada, Masahiro

PA Mitsubishi Chemical Industries Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

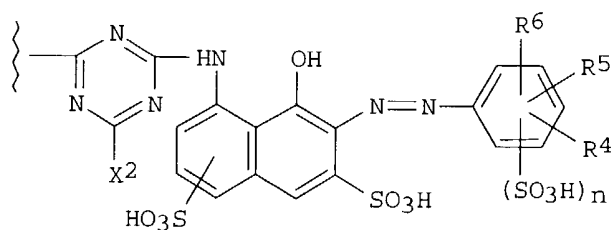
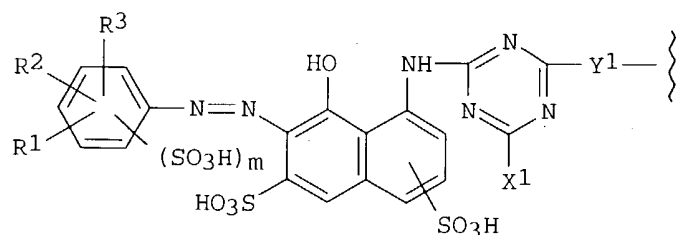
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11029729	A2	19990202	JP 1997-183671	19970709
OS	MARPAT 130:183929			JP 1997-183671	19970709
GI					



I

AB Title color images are formed by using water-thinned inks containing (A) magenta inks of naphthalenedisulfonic acid-type azo-dye I [R1-6 = (substituted) alkyl, halogen, H, OH, (substituted) carbamoyl, (substituted) sulfamoyl, (substituted) amino, NO₂, sulfonate ester, sulfonyl, carboxy, carboxy ester; m, n = 0-2; X1, X2 = OH, hydrocarbyloxy; Y = amino-terminated polyoxyalkylene, spiro ring-containing group, etc.], (B) yellow inks comprising C.I. Acid Yellow 23, C.I. Direct Yellow 86, C.I. Direct Yellow 132, C.I. Direct Yellow 142, or dyes ArN:NJNR15X3(NR16LNR17X4)qNR18J1N:NAr1 [Ar, Ar1 = (substituted) aryl containing CO₂H or COSH groups; J, J1 = specified (hetero)cyclic groups; R15-18 = H, (substituted) alkyl; q = 0, 1; L = divalent group; X3, X4 = carbonyl, etc.] and/or (C) cyan inks comprising C.I. Direct Blue 86, C.I. Direct Blue 199, C.I. Acid Blue 9, and dyes Pc(SO₃H)_j(SO₂NR26L1NR27X4NR28G)_k [Pc = metal-containing phthalocyanine; R26-28 = H, alkyl, alkenyl, aralkyl, etc.; L1 = divalent group; X4 = carbonyl group, specified heterocyclic groups]. Thus, an ink containing an I, C.I. Acid Yellow 23, and C.I. Direct Blue 86 gave clear images with good light resistance.

L5 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1996:476690 CAPLUS

DN 125:117643

TI Ink-jet printing inks and printing devices

IN Teraoka, Hisashi; Takizawa, Yoshihisa; Sato, Shinichi; Katsuragi, Takashi

PA Canon Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08113744	A2	19960507	JP 1995-239012	19950825
				JP 1994-222706	19940825

OS MARPAT 125:117643

AB The title inks are prepared from dyes containing ≥1 ammonium ion as counter ions, polyols (e.g., glycerol, polyethylene glycol, 1,2,6-hexanetriol, thiodiglycol), organic amines (e.g., diethanolamine, dipropanolamine, triethanolamine), urea or its derivs., and optionally

surfactants.

L5 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:29832 CAPLUS
 DN **124:59484**
 TI Jet-printing inks, printing process and apparatus therewith
 IN Saito, Eriko; Takizawa, Yoshihisa; Yamamoto, Mayumi; Sato, Shinichi;
 Nagashima, Satoshi; Teraoka, Hisashi
 PA Canon Kk, Japan
 SO Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07238245	A2	19950912	JP 1994-51127	19940225
				JP 1994-51127	19940225

OS MARPAT 124:59484

AB Title inks, showing good anticlogging and storage stability and giving
 water-resistant sharp prints on neutral or acidic paper sheets, contain
~~acid-form-azo-dyes-and-alkyl-, carboxy-, and/or-sulfonato-secondary amine~~
 (derivs.) and/or tertiary amine (derivs.). A typical ink comprised water,
 thiodiglycol, an azo dye, C12H25NHC3H6NHCH2COONH4, urea, and (NH4)2SO4.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
18.34	283.60

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-4.16	-4.16

CA SUBSCRIBER PRICE

STN INTERNATIONAL LOGOFF AT 16:13:34 ON 09 MAR 2004

Welcome to STN International! Enter x:x

LOGINID:sssptal611sxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/CAPlus records now contain indexing from 1907 to the
present
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded
NEWS 5 SEP 29 DISSABS now available on STN
NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
~~NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced~~
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPlus
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated
and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in
CA/CAPlus
NEWS 22 FEB 05 German (DE) application and patent publication number format
changes
NEWS 23 MAR 03 MEDLINE and LMEDLINE reloaded
NEWS 24 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 25 MAR 03 FRANCEPAT now available on STN

NEWS EXPRESS MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:19:17 ON 09 MAR 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:19:30 ON 09 MAR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file

provided by InfoChem.

STRUCTURE FILE UPDATES: 8 MAR 2004 HIGHEST RN 660388-34-1

DICTIONARY FILE UPDATES: 8 MAR 2004 HIGHEST RN 660388-34-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

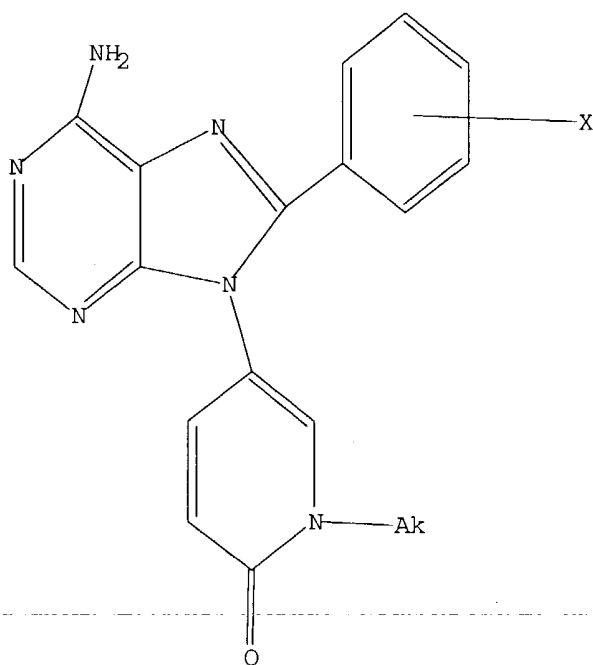
Uploading c:\program files\stnexp\queries\10018688.16

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full

FULL SEARCH INITIATED 16:19:53 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 50 TO ITERATE

100.0% PROCESSED 50 ITERATIONS

16 ANSWERS

SEARCH TIME: 00.00.01

L2 16 SEA SSS FUL L1

=> file marpat

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

155.42

155.63

FILE 'MARPAT' ENTERED AT 16:19:59 ON 09 MAR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE CONTENT: 1988-PRESENT (VOL 140 ISS 10) (20040307/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6683216 27 JAN 2004
DE 10317487 12 FEB 2004
EP 1388563 11 FEB 2004
JP 2004047131 12 FEB 2004
WO 2004011964 05 FEB 2004

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

=> s l1 sss full

FULL SEARCH INITIATED 16:20:05 FILE 'MARPAT'

FULL SCREEN SEARCH COMPLETED - 400 TO ITERATE

100.0% PROCESSED 400 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.05

L3 1 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

109.42

265.05

FILE 'CAPLUS' ENTERED AT 16:20:16 ON 09 MAR 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

~~COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)~~

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 9 Mar 2004 VOL 140 ISS 11

FILE LAST UPDATED: 8 Mar 2004 (20040308/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 16:19:17 ON 09 MAR 2004)

FILE 'REGISTRY' ENTERED AT 16:19:30 ON 09 MAR 2004

L1 STRUCTURE UPLOADED

L2 16 S L1 SSS FULL

FILE 'MARPAT' ENTERED AT 16:19:59 ON 09 MAR 2004

L3 1 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:20:16 ON 09 MAR 2004

=> s l2

L4 1 L2

=> s l3

L5 1 L3

=> d l4 fbib hitstr abs total

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:31502 CAPLUS
 DN 134:100881
 TI Preparation of fused imidazole compounds and remedies for diabetes mellitus
 IN Asano, Osamu; Harada, Hitoshi; Yoshikawa, Seiji; Watanabe, Nobuhisa; Inoue, Takashi; Horizoe, Tatsuo; Yasuda, Nobuyuki; Oohashi, Kaya; Minami, Hiroe; Nagaoka, Junsaku; Murakami, Manabu; Kobayashi, Seiichi; Tanaka, Isao; Kawata, Tsutomu; Shimomura, Naoyuki; Akamatsu, Hirofumi; Ozeki, Naoki; Shimizu, Toshikazu; Hayashi, Kenji; Haga, Toyokazu; Negi, Shigeto; Naito, Toshihiko
 PA Eisai Co., Ltd., Japan
 SO PCT Int. Appl., 130 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT-NO.	KIND	DATE	APPLICATION-NO.	DATE
PI WO 2001002400	A1	20010111	WO 2000-JP4358	20000630
W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 1999-188484 A 19990702				
JP 2000-143495 A 20000516				
JP 2000-182786 A 20000619				
AU 2000055717	A5	20010122	AU 2000-55717	20000630
JP 1999-188484 A 19990702				
JP 2000-143495 A 20000516				
JP 2000-182786 A 20000619				
WO 2000-JP4358 W 20000630				
EP 1221444	A1	20020710	EP 2000-940909	20000630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
JP 1999-188484 A 19990702				
JP 2000-143495 A 20000516				
JP 2000-182786 A 20000619				
WO 2000-JP4358 W 20000630				

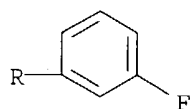
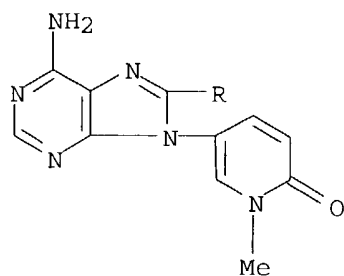
OS MARPAT 134:100881

IT 318468-14-3P 318468-15-4P 318468-21-2P
 318468-44-9P 318468-45-0P 318468-46-1P
 318468-48-3P 318468-49-4P 318468-50-7P
 318468-51-8P 318468-52-9P 318468-53-0P
 318468-63-2P 318468-72-3P 318468-96-1P
 318468-97-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of fused imidazole compds. as antagonists of adenosine A2 receptors and remedies for diabetes mellitus)

RN 318468-14-3 CAPLUS

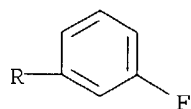
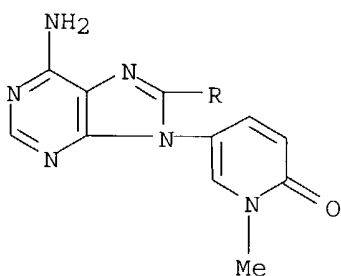
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

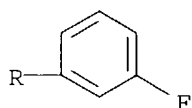
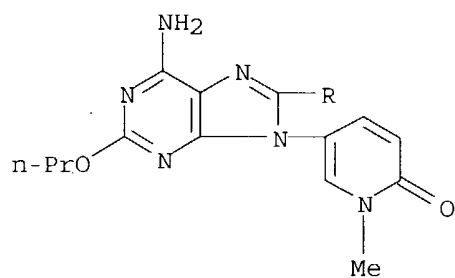
RN 318468-15-4 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-
(9CI) (CA INDEX NAME)



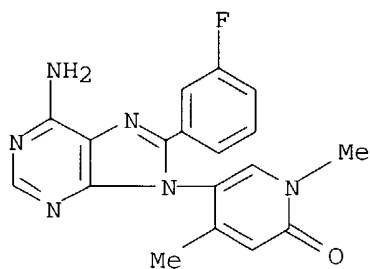
RN 318468-21-2 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-propoxy-9H-purin-9-yl]-1-
methyl-, monohydrochloride (9CI) (CA INDEX NAME)



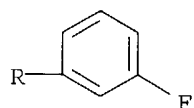
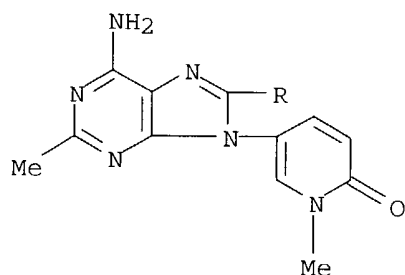
● HCl

RN 318468-44-9 CAPLUS
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,4-dimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

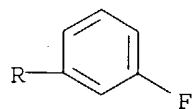
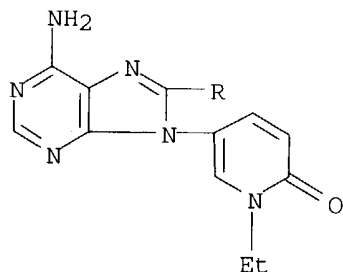
RN 318468-45-0 CAPLUS
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-methyl-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-46-1 CAPLUS

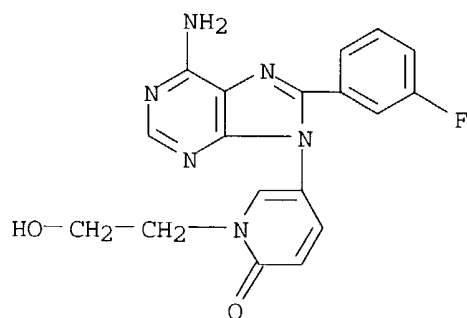
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-ethyl-,
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

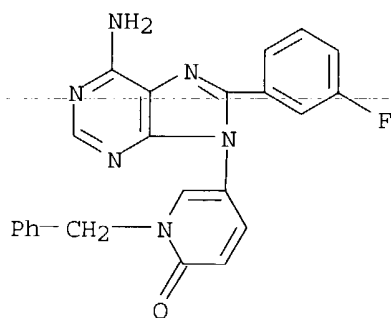
RN 318468-48-3 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(2-
hydroxyethyl)- (9CI) (CA INDEX NAME)



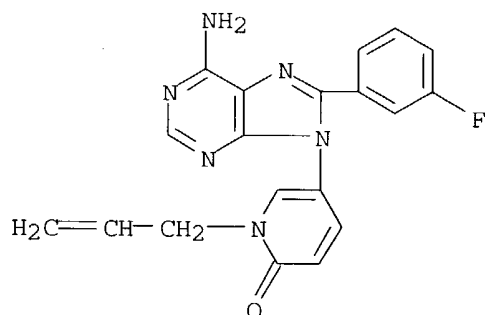
RN 318468-49-4 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



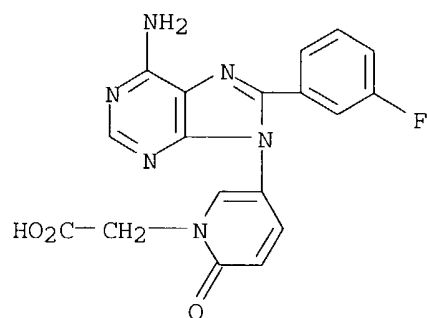
RN 318468-50-7 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-(2-propenyl)- (9CI) (CA INDEX NAME)



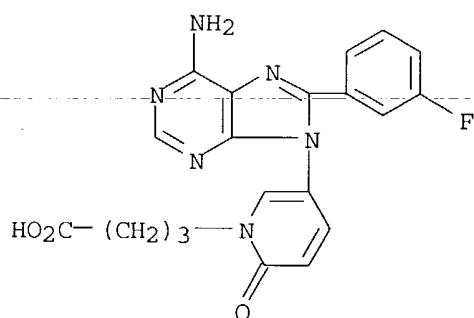
RN 318468-51-8 CAPLUS

CN 1(2H)-Pyridineacetic acid, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)



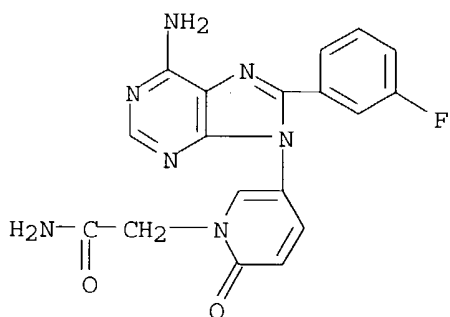
RN 318468-52-9 CAPLUS

CN 1(2H)-Pyridinebutanoic acid, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)



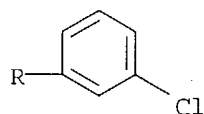
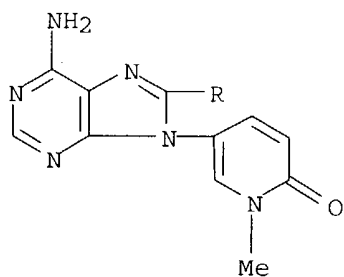
RN 318468-53-0 CAPLUS

CN 1(2H)-Pyridineacetamide, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-2-oxo- (9CI) (CA INDEX NAME)



RN 318468-63-2 CAPLUS

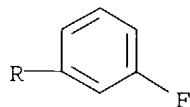
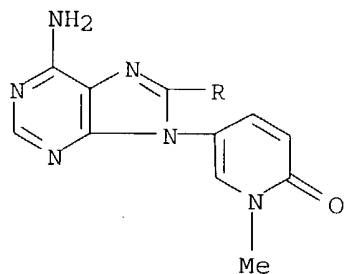
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-chlorophenyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 318468-72-3 CAPLUS

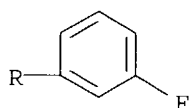
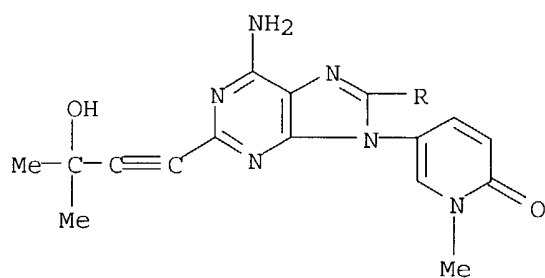
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-, dihydrate (9CI) (CA INDEX NAME)



● 2 H₂O

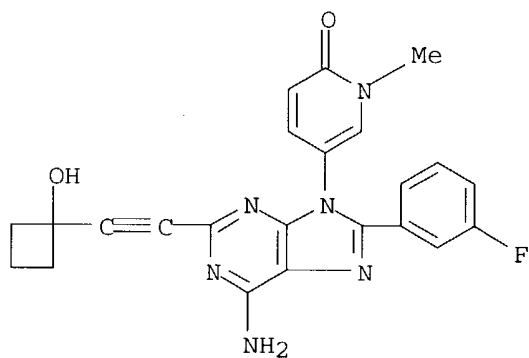
RN 318468-96-1 CAPLUS

CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-(3-hydroxy-3-methyl-1-butynyl)-9H-purin-9-yl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



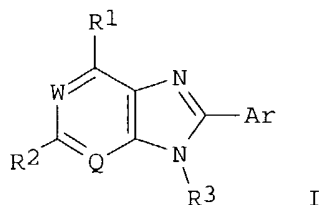
● HCl

RN 318468-97-2 CAPLUS
CN 2(1H)-Pyridinone, 5-[6-amino-8-(3-fluorophenyl)-2-[(1-hydroxycyclobutyl)ethynyl]-9H-purin-9-yl]-1-methyl-, monohydrochloride
(9CI) (CA INDEX NAME)



● HCl

GI



AB Novel fused imidazole compds. such as purine derivs. of general formula (I), pharmacol. acceptable salts thereof, or hydrates of both [wherein R1 = H, OH, halo, (un)substituted C1-8 alkyl, (un)substituted NH2; R2 = H, halo, (un)substituted NH2, (un)substituted C2-8 alkenyl, (un)substituted C3-8 alkynyl, (un)substituted C1-8 alkyl; R3 = (un)substituted C3-8 alkynyl, C3-8 alkenyl, (un)substituted C1-8 alkyl, (un)substituted aryl, (un)substituted heteroaryl, etc.; Ar = (un)substituted aryl, (un)substituted heteroaryl, optionally halo- or C1-6 alkyl-substituted N-C1-6 alkyl- or N-C3-6 cycloalkyl-oxopyridyl or -oxopyrimidyl; Q, W = N, CH; some proviso are given] are prepared These compds. exhibit adenosine A2 receptor antagonism and are effective in the prevention and treatment of diabetes mellitus and complications of diabetes. Thus, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,2-dihydro-2-pyridinone was condensed with N,N-dimethylformamide di-Me acetal in DMF at room temperature

for 1 h, ice-cooled, treated with NaH at 0-6° for 30 min, and methylated by Me iodide at room temperature for 16 h to give 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-1,2-dihydro-2-pyridinone (II). II.HCl at 10 mg/kg p.o. in spontaneously diabetic mice lowered the blood sugar level to 47.3±7.2% of the control animal.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 15 fbib hitstr abs total

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:31502 CAPLUS
DN **134:100881**
TI Preparation of fused imidazole compounds and remedies for diabetes mellitus
IN Asano, Osamu; Harada, Hitoshi; Yoshikawa, Seiji; Watanabe, Nobuhisa; Inoue, Takashi; Horizoe, Tatsuo; Yasuda, Nobuyuki; Oohashi, Kaya; Minami, Hiroe; Nagaoka, Junsaku; Murakami, Manabu; Kobayashi, Seiichi; Tanaka, Isao; Kawata, Tsutomu; Shimomura, Naoyuki; Akamatsu, Hirofumi; Ozeki, Naoki; Shimizu, Toshikazu; Hayashi, Kenji; Haga, Toyokazu; Negi, Shigeto; Naito, Toshihiko
PA Eisai Co., Ltd., Japan
SO PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002400	A1	20010111	WO 2000-JP4358	20000630
W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

PT, SE

AU 2000055717

A5

20010122

EP 1221444

A1

20020710

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI, CY

JP 1999-188484 A 19990702

JP 2000-143495 A 20000516

JP 2000-182786 A 20000619

AU 2000-55717 20000630

JP 1999-188484 A 19990702

JP 2000-143495 A 20000516

JP 2000-182786 A 20000619

WO 2000-JP4358 W 20000630

EP 2000-940909 20000630

JP 1999-188484 A 19990702

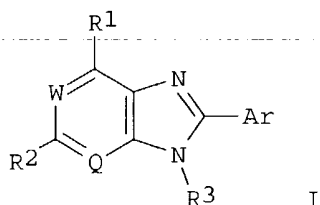
JP 2000-143495 A 20000516

JP 2000-182786 A 20000619

WO 2000-JP4358 W 20000630

OS MARPAT 134:100881

GI



AB Novel fused imidazole compds. such as purine derivs. of general formula (I), pharmacol. acceptable salts thereof, or hydrates of both [wherein R1 = H, OH, halo, (un)substituted C1-8 alkyl, (un)substituted NH2; R2 = H, halo, (un)substituted NH2, (un)substituted C2-8 alkenyl, (un)substituted C3-8 alkynyl, (un)substituted C1-8 alkyl; R3 = (un)substituted C3-8 alkynyl, C3-8 alkenyl, (un)substituted C1-8 alkyl, (un)substituted aryl, (un)substituted heteroaryl, etc.; Ar = (un)substituted aryl, (un)substituted heteroaryl, optionally halo- or C1-6 alkyl-substituted N-C1-6 alkyl- or N-C3-6 cycloalkyl-oxypyridyl or -oxypyrimidyl; Q, W = N, CH; some proviso are given] are prepared These compds. exhibit adenosine A2 receptor antagonism and are effective in the prevention and treatment of diabetes mellitus and complications of diabetes. Thus, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,2-dihydro-2-pyridinone was condensed with N,N-dimethylformamide di-Me acetal in DMF at room temperature for

1 h, ice-cooled, treated with NaH at 0-6° for 30 min, and methylated by Me iodide at room temperature for 16 h to give 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-1,2-dihydro-2-pyridinone (II). II.HCl at 10 mg/kg p.o. in spontaneously diabetic mice lowered the blood sugar level to 47.3±7.2% of the control animal.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s purine and diabetes

L6 163 PURINE AND DIABETES

=> s 16 and 14

L7 1 L6 AND L4

=> s 16 and 15

L8 1 L6 AND L5

=> s 16 and 4-amino

L9 2 L6 AND 4-AMINO

=> d 19 fbib hitstr abs total

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:376865 CAPLUS

DN 138:385444

TI Preparation of substituted adenines as drugs, cosmetics, and agrochemical growth regulators.

IN Dolezal, Karel; Popa, Igor; Holub, Jan; Lenobel, Rene; Werbrouck, Stefaan; Strnad, Miroslav; Zatloukal, Marek

PA Ustav Experimentalni Botaniky Akademie Ved Ceske Republiky, Czech Rep.

SO PCT Int. Appl., 67 pp.

CODEN: PIXXD2

DT Patent

LA English

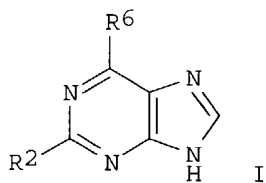
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003040144	A2	20030515	WO 2002-CZ45	20020801
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

CZ 2001-2818 A 20010802

OS MARPAT 138:385444

GI

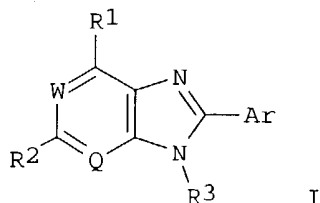


AB Title compds. [I; R2 = H, halo, OH, alkoxy, amino, hydrazo, SH, CO2H, cyano, NO2, amido, sulfo, sulfamido, acylamino, acyloxy, cycloalkyl, etc.; R6 = (substituted) alkyl, cycloalkyl, aryl, heterocyclyl, heteroaryl, aralkyl, cycloalkylalkyl, amido, sulfo, etc.], were prepared Thus, 6-chloropurine, 3-chlorobenzylamine, and Et3N were heated in BuOH at 90° for 4 h to give 95% 6-(3-chlorobenzylamino)**purine**. This showed IC50 = 148.6 µM against G-361 cancer cells.

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:31502 CAPLUS
 DN 134:100881
 TI Preparation of fused imidazole compounds and remedies for **diabetes**
 mellitus
 IN Asano, Osamu; Harada, Hitoshi; Yoshikawa, Seiji; Watanabe, Nobuhisa;
 Inoue, Takashi; Horizoe, Tatsuo; Yasuda, Nobuyuki; Oohashi, Kaya; Minami,
 Hiroe; Nagaoka, Junsaku; Murakami, Manabu; Kobayashi, Seiichi; Tanaka,
 Isao; Kawata, Tsutomu; Shimomura, Naoyuki; Akamatsu, Hirofumi; Ozeki,
 Naoki; Shimizu, Toshikazu; Hayashi, Kenji; Haga, Toyokazu; Negi, Shigeto;
 Naito, Toshihiko
 PA Eisai Co., Ltd., Japan
 SO PCT Int. Appl., 130 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002400	A1	20010111	WO 2000-JP4358	20000630
W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
			JP 1999-188484 A	19990702
			JP 2000-143495 A	20000516
			JP 2000-182786 A	20000619
AU 2000055717	A5	20010122	AU 2000-55717	20000630
			JP 1999-188484 A	19990702
			JP 2000-143495 A	20000516
			JP 2000-182786 A	20000619
			WO 2000-JP4358 W	20000630
EP 1221444	A1	20020710	EP 2000-940909	20000630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
			JP 1999-188484 A	19990702
			JP 2000-143495 A	20000516
			JP 2000-182786 A	20000619
			WO 2000-JP4358 W	20000630

OS MARPAT 134:100881
 GI



AB Novel fused imidazole compds. such as **purine** derivs. of general
 formula (I), pharmacol. acceptable salts thereof, or hydrates of both
 [wherein R1 = H, OH, halo, (un)substituted C1-8 alkyl, (un)substituted

NH₂; R₂ = H, halo, (un)substituted NH₂, (un)substituted C₂-8 alkenyl, (un)substituted C₃-8 alkynyl, (un)substituted C₁-8 alkyl; R₃ = (un)substituted C₃-8 alkynyl, C₃-8 alkenyl, (un)substituted C₁-8 alkyl, (un)substituted aryl, (un)substituted heteroaryl, etc.; Ar = (un)substituted aryl, (un)substituted heteroaryl, optionally halo- or C₁-6 alkyl-substituted N-C₁-6 alkyl- or N-C₃-6 cycloalkyl-oxopyridyl or -oxopyrimidyl; Q, W = N, CH; some proviso are given] are prepared These compds. exhibit adenosine A₂ receptor antagonism and are effective in the prevention and treatment of **diabetes** mellitus and complications of **diabetes**. Thus, 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1,2-dihydro-2-pyridinone was condensed with N,N-dimethylformamide di-Me acetal in DMF at room temperature for 1 h, ice-cooled, treated with NaH at 0-6° for 30 min, and methylated by Me iodide at room temperature for 16 h to give 5-[6-amino-8-(3-fluorophenyl)-9H-purin-9-yl]-1-methyl-1,2-dihydro-2-pyridinone (II). II.HCl at 10 mg/kg p.o. in spontaneously diabetic mice lowered the blood sugar level to 47.3±7.2% of the control animal.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 16:19:17 ON 09 MAR 2004)

FILE 'REGISTRY' ENTERED AT 16:19:30 ON 09 MAR 2004

L1 STRUCTURE UPLOADED

L2 16 S L1 SSS FULL

FILE 'MARPAT' ENTERED AT 16:19:59 ON 09 MAR 2004

L3 1 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:20:16 ON 09 MAR 2004

L4 1 S L2

L5 1 S L3

L6 163 S PURINE AND DIABETES

L7 1 S L6 AND L4

L8 1 S L6 AND L5

L9 2 S L6 AND 4-AMINO

=> s 16 and 1,2-biphenyl

L10 0 L6 AND 1,2-BIPHENYL

=>

=> s 16 and 1-pyridine

L11 0 L6 AND 1-PYRIDINE

=> s 16 and pyridone

L12 0 L6 AND PYRIDONE

=> s 16 and 2-phenyl

L13 1 L6 AND 2-PHENYL

=> s 16 and halogenated phenyl

L14 0 L6 AND HALOGENATED PHENYL

=> d 113 fbib hitstr abs total

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:320891 CAPLUS
 DN 139:160965
 TI Free radical scavengers can modulate the DNA-damaging action of alloxan
 AU Blasiak, Janusz; Sikora, Agnieszka; Czechowska, Agnieszka; Drzewoski, Jozef
 CS Department of Molecular Genetics, University of Lodz, Lodz, 90-237, Pol.
 SO Acta Biochimica Polonica (2003), 50(1), 205-210
 CODEN: ABPLAF; ISSN: 0001-527X
 PB Polish Biochemical Society
 DT Journal
 LA English
 AB Alloxan can generate **diabetes** in exptl. animals and its action can be associated with the production of free radicals. It is therefore important to check how different substances often referred to as free radical scavengers may interact with alloxan, especially that some of these substance may show both pro- and antioxidant activities. Using the alkaline comet assay the authors showed that alloxan at concns. 0.01-50 μ M induced DNA damage in normal human lymphocytes in a dose-dependent manner. Treated cells were able to recover within a 120-min incubation. Vitamins C and E at 10 and 50 μ M diminished the extent of DNA damage induced by 50 μ M alloxan. Pre-treatment of the lymphocytes with a nitron spin trap, α -(4-pyridyl-1-oxide)-N-t-butylnitron (POBN) or ebselen (~~2-phenyl-1,2-benzisoselenazol-3(2H)-one~~), which mimics glutathione peroxides, reduced the alloxan-evoked DNA damage. The cells exposed to alloxan and treated with formamidopyrimidine-DNA glycosylase (Fpg) and 3-methyladenine-DNA glycosylase II (Alka), enzymes recognizing oxidized and alkylated bases, resp., displayed greater extent of DNA damage than those not treated with these enzymes. The results confirmed that free radicals are involved in the formation of DNA lesions induced by alloxan. The results also suggest that alloxan can generate oxidized DNA bases with a preference for **purines** and contribute to their alkylation.

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	44.29	309.34
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.47	-3.47

STN INTERNATIONAL LOGOFF AT 16:25:46 ON 09 MAR 2004